L49 – L2 – The Sine Law
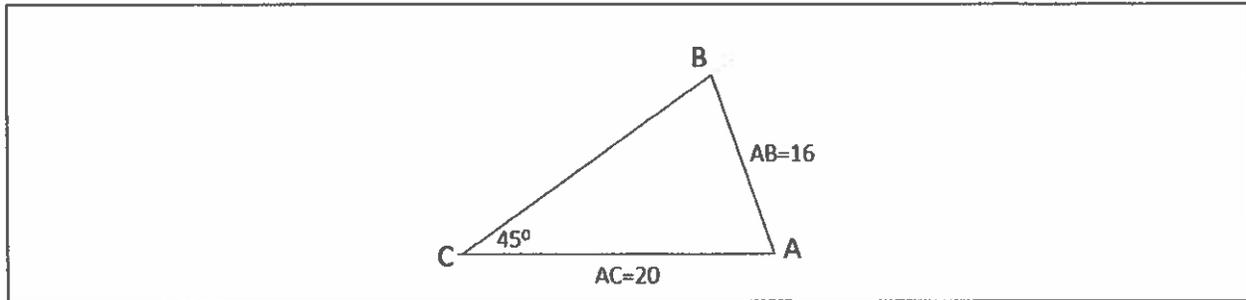
Use the following information to answer Q1:

Q1: Determine the value of ∠B.

$$\frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\frac{\sin B}{20} = \frac{\sin 45}{16}$$

$$\frac{\sin B}{20} = \frac{0.707}{16}$$

$$\sin B = 0.883....$$

$$\angle B = \sin^{-1}(0.883...)$$

$$\angle B = 62.1°$$

MARKING:

Beginning	0.0 – 1.0
Progressing	1.5 – 2.0
Competent	2.5
Exemplary	3.0